

Datasheet for ABIN335402

**anti-CDH6 antibody****3** Images**2** Publications[Go to Product page](#)

## Overview

Quantity:	0.1 mg
Target:	CDH6
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

## Product Details

Immunogen:	2B6 is a mouse monoclonal IgG1 antibody obtained by fusion of SP2/0 mouse myeloma cells with spleen cells from a BABL/c mouse immunized with affinity purified extracellular domain of human cadherin-6-GST fusion protein.
Clone:	2B6
Isotype:	IgG1
Specificity:	Human and rat.
Purification:	Purified

## Target Details

Target:	CDH6
Alternative Name:	K-Cadherin/Cadherin-6 ( <a href="#">CDH6 Products</a> )
Background:	Cadherins constitute a family of transmembrane glycoproteins involved in Ca <sup>2+</sup> -dependent

## Target Details

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cell-cell interactions. The members of this family are differentially expressed in various tissues. They function in the maintenance of tissue integrity and morphogenesis. The cadherins generally contain five extracellular repeats, a transmembrane domain and a cytoplasmic tail that binds to the catenin family of cytoskeletal anchoring proteins which also function as signal transducers. The extracellular domains are responsible for the specificity of homophilic interactions between cells expressing the same cadherin. Cadherins are divided into type I and type II subgroups. Type I cadherins include epithelial cadherin (E-cadherin, cadherin-1 or uvomorulin), neural cadherin (N-cadherin or cadherin-2), placental cadherin (P-cadherin or cadherin-3) and retinal cadherin (R-cadherin or cadherin-4). Kidney cadherin (K-cadherin or cadherin-6) and osteoblast cadherin (OB-cadherin or cadherin-11) are type II cadherins. Cadherin-6 is expressed in the proximal tubule epithelium of the kidney from which most renal cell carcinomas are derived.

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Pathways: [Cell-Cell Junction Organization](#)

## Application Details

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Application Notes: 2B6 recognizes the extracellular domain of cadherin-6. 2B6 is suitable for immunoblotting, immunocytochemistry and immunohistochemistry on frozen sections when using a PBS buffer containing 0.1 mM CaCl<sub>2</sub> and 0.1 mM MgCl<sub>2</sub>. Optimal antibody dilution should be determined by titration, recommended range is 1:25 - 1:50 for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:25 - 1:250 for immunoblotting applications.

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Restrictions: For Research Use only

## Handling

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Storage: 4 °C

## Publications

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Product cited in: Shimazui, Oosterwijk-Wakka, Akaza, Bringuier, Ruijter, Debruyne, Schalken, Oosterwijk: "Alterations in expression of cadherin-6 and E-cadherin during kidney development and in renal cell carcinoma." in: **European urology**, Vol. 38, Issue 3, pp. 331-8, (2000) ([PubMed](#)).

Shimazui, Oosterwijk, Akaza, Bringuier, Ruijter, van Berkel, Wakka, van Bokhoven, Debruyne, Schalken: "Expression of cadherin-6 as a novel diagnostic tool to predict prognosis of patients with E-cadherin-absent renal cell carcinoma." in: **Clinical cancer research : an official journal of**

the American Association for Cancer Research, Vol. 4, Issue 10, pp. 2419-24, (1998) ([PubMed](#)).

Images

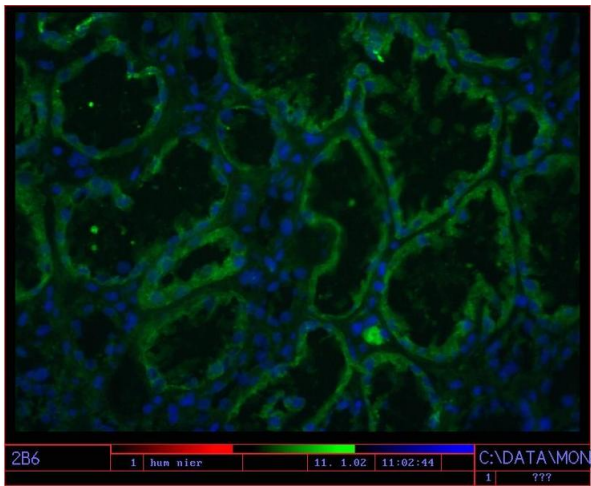


Image 1.

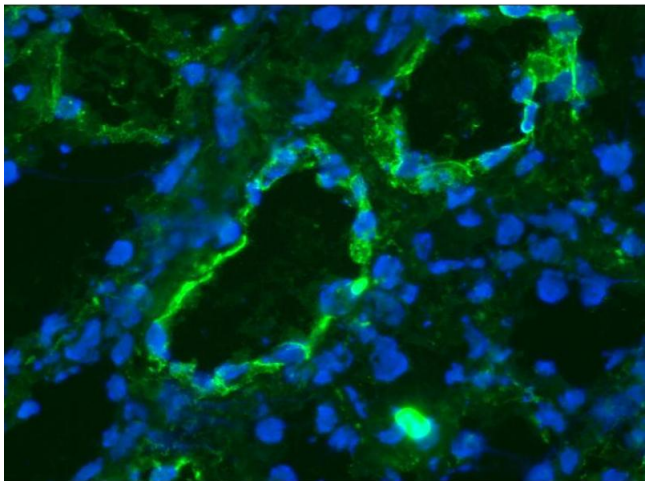
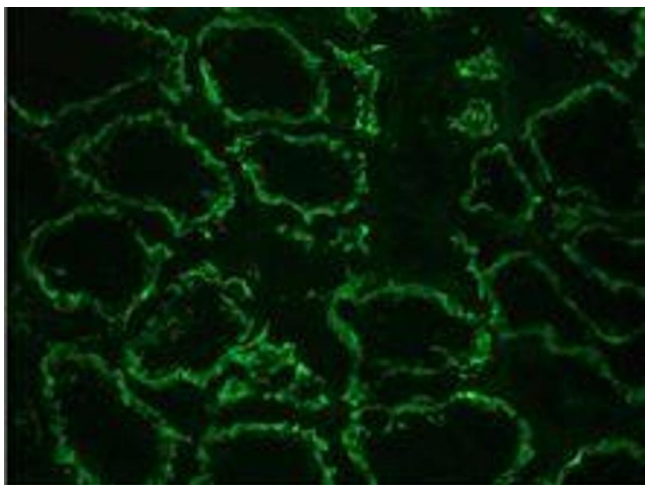


Image 2.



Immunohistochemistry (Frozen Sections)

**Image 3.** Immunohistochemistry on frozen section of human kidney positive reactivity in renal tubules epithelium